

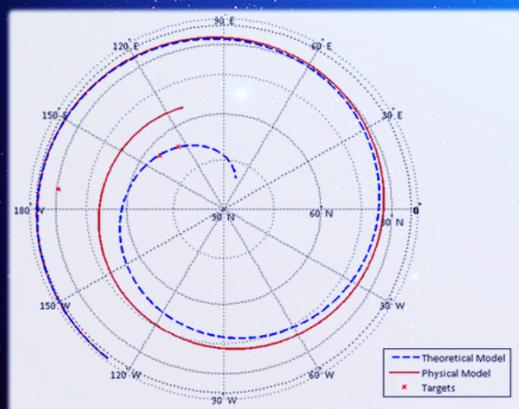
VELOONUS

BALLOON TRAJECTORIES IN VENUS

SCOPE OF THE PROJECT:

- Software tool capable of simulating balloon trajectories around Venus.
The code is based on:
 - Reference systems
 - Temperature and wind models
 - Balloon equations
 - Earth access and eclipses
- Optimization of the trajectory using Genetic Algorithms (GA)
- Comparison of results
 - Sensitivity to thermal effects
 - Physical model versus optimized theoretical trajectory using GA

RESULTS:



VELOONUS

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